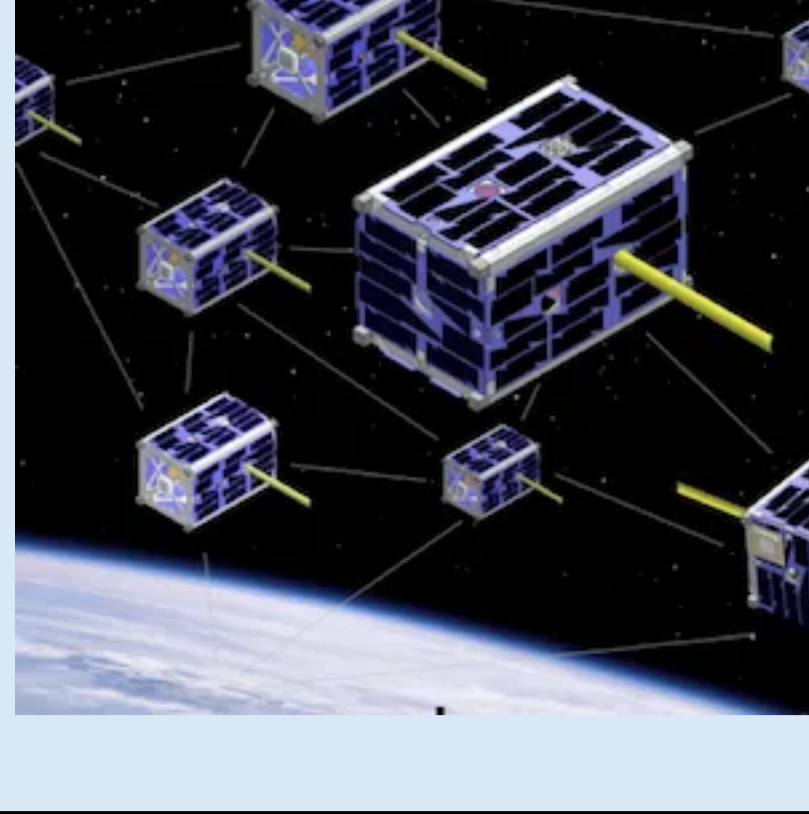


Andrew Santangelo – sci_Zone

QuickSAT/Autonomy and LinkStar



An AI Based System Supporting Autonomous Vehicle Health Monitoring and Tactical Intelligence, Surveillance, and Reconnaissance Functions For Cubesats

Our Poster Author And Events he will be presenting at this week...

POSTER BELOW and VIDEO BELOW

Andrew Santangelo

CHIEF TECHNOLOGY OFFICER

Andrew Santangelo is the Chief Technology Officer of sci_Zone and Principal Architect of the LinkStar Radio System and QuickSAT environment. He has supported the design and development of numerous Satellites, UAVs, near space concept systems and commercial flight systems. He is a Lifetime Associate Fellow of the American Institute of Aeronautics and Astronautics (AIAA), and is the Founding Chairman of the AIAA Small Satellite Technical Committee.

Mr. Santangelo will be leading the briefings listed to the right this week as part of the 2021 CubeSat Developers Workshop!

Presentation

THE LINKSTAR CYBERSECURITY CUBESAT "SANDBOX" – A PLATFORM TO TEST CUBESAT VULNERABILITIES WITH THE SMALL SATELLITE COMMUNITY

April 29, 2021; 12:00 PM PDT – Testing and understanding the range of threats to all segments of a cubesat mission can be daunting, especially for teams that are not well funded or lack the resources for test and development. sci_Zone with the AIAA and the Aerospace Cybersecurity Working Group created the LinkStar Cybersecurity Cubesat Test Platform, a sandbox to test vulnerabilities a cubesat can experience. For this presentation will present the architecture, highlight current lessons learned, and how a team can gain access to test, learn, probe and try to "hack" the satellite.

Panel Discussion

CYBERSECURITY PANEL DISCUSSION

April 27, 2021; 10:00 AM PDT –

Cubesats are becoming ubiquitous in Low Earth Orbit with operators ranging from the U.S. Government to commercial businesses, university teams and even hobbyists. However cubesats are vulnerable to range of cyberattacks on the ground segment, the link segment and the Space Segment. Join Mr. Santangelo and the AIAA Small Satellite Technical Committee to discuss Cybersecurity and CubeSats.

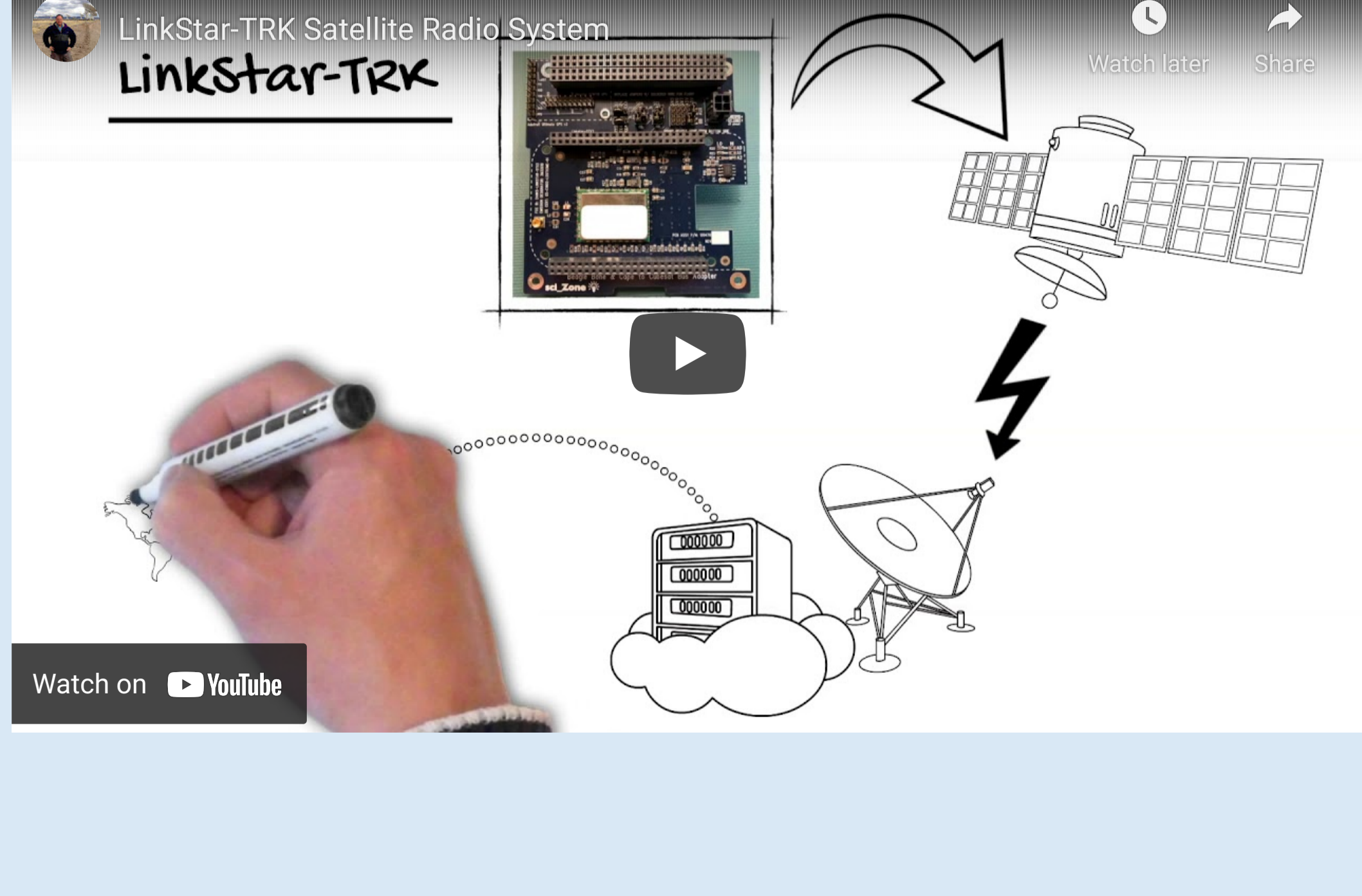
Poster Session

QUICKSAT/AUTONOMY AND LINKSTAR, AN AI BASED SYSTEM SUPPORTING AUTONOMOUS VEHICLE HEALTH MONITORING AND TACTICAL INTELLIGENCE, SURVEILLANCE, AND RECONNAISSANCE FUNCTIONS FOR CUBESATS

The QuickSAT/Autonomy is a framework of autonomy APIs and system with flight computer designed for cubesats to support Tactical Intelligence, Surveillance, and Reconnaissance (ISR) functions plus generic autonomy related functions. The system allows the cubesat through a range of sensors such as a hyperspectral camera used in our test to collect data, "perceive" key select information, and alert to the ground what is "sensed", relaying only the required critical data. Operators can later download larger data sets as needed.

QuickSAT/Autonomy & LinkStar

LinkStar-TRK and QuickSAT/Autonomy: Global Communications and Tracking!



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